As of June 19, 2018, the Superior Refinery has discontinued its community air monitoring, which has shown results within regulatory guidelines since the April 26th fire. Monitoring within the facility will continue while activities are conducted at the site, and procedures are in place to reinitiate monitoring in the community in the event that ongoing activities cause air emissions that may extend beyond the refinery fence line.

Since April 26, 2018, the Superior Refinery has been conducting air monitoring to monitor air quality for workers at the refinery and the surrounding community following the fire. Community air monitoring readings were collected by mobile teams with hand-held air monitoring equipment. Refinery air monitoring readings were collected using fixed air monitoring and handheld equipment located along the refinery fence line and in various locations within the refinery where stabilization operations were occurring. All community air monitoring results were provided to Douglas County for distribution to the public. Fence line air monitoring results were reported to the United States Environmental Protection Agency (USEPA), the Wisconsin Department of Natural Resources (WDNR), and Douglas County.

Air monitoring readings were collected 24 hours/day, 7 days/week in the community and at the refinery through May 25, 2018. Through June 19, 2018, the Superior Refinery has collected over 88,000 air monitoring readings in the community and over 48,000,000 readings at the refinery. Based on progress made towards site stabilization and de-inventory of refinery units, the risk of significant air emissions during the remaining recovery operations has been substantially reduced. As a result, the Superior Refinery began reducing the level of air monitoring through the following steps:

- May 26, 2018 Community air monitoring was reduced to daylight hours when operations at the refinery were occurring. This decision was supported by several weeks of data indicating no elevated readings either at the fence line of the refinery or within the community.
- June 19, 2018 Scheduled community air monitoring was discontinued.
- June 19, 2018 24/7 continuous air monitoring at the fence line of the refinery was discontinued.
- June 19, 2018 Air monitoring readings continue to be collected using fixed air monitoring and handheld equipment at various locations within the refinery in areas where recovery operations are occurring.

As noted above, the Superior Refinery will initiate a mobile community monitoring team in the event that an activity on site causes an air emission that may extend beyond the refinery fence line.